

Network Analysis and Troubleshooting Family

Scalable testing for each phase of the mobile network lifecycle

EXFO



You can't repair a network failure
if you can't find its root cause!



Mobile traffic skyrocketing... more video and peer-to-peer sharing... bandwidth-hungry applications proliferating... smartphones and tablets multiplying... oh my!

The strain on your network is only going to increase!

With millions of dollars at stake, let EXFO's testing solutions be your eyes. Invest in a testing and troubleshooting solution that will enable your engineers to thoroughly verify network performance and interoperability—and ultimately, your subscriber's actual quality of experience!

Our intuitive and flexible test tools deliver results in real time and speed up troubleshooting, while minimizing your average mean time to repair, not to mention your OPEX.

INTRODUCING THE HAWK FAMILY OF ANALYZERS.

Network analysis and troubleshooting for the lab and field...

TravelHawk Pro

Portable, Network Troubleshooting Tool



- › Complete LTE/EPC technology support with correlated session and statistical analysis
- › High-performance unit for multiple, simultaneous 1 and 10 Gbit/s Ethernet links
- › Comprehensive VoLTE analysis including correlated LTE control-plane, SIP, RTP, and QoS (MOS/Rfactor) analysis and voice playback

PowerHawk Pro

Distributed Network Analyzer



- › Probe-based system for automated real-time LTE/EPC and PS-Core analysis
- › Network troubleshooting and mobile network optimization
- › Powerful KPIs available in real time, with detailed user-plane analysis including IP application analysis and diagnostics

TravelHawk

Portable Analyzer



- › Briefcase-sized, PC-based unit for lab and field testing
- › On-site troubleshooting, IOT, verification and functional testing
- › Only portable, multitechnology analyzer on the market

PowerHawk

Multi-User Analyzer



- › Server for up to 10 simultaneous users
- › For IOT, verification and functional testing
- › Powerful solution to enable high-volume testing

M5 Software

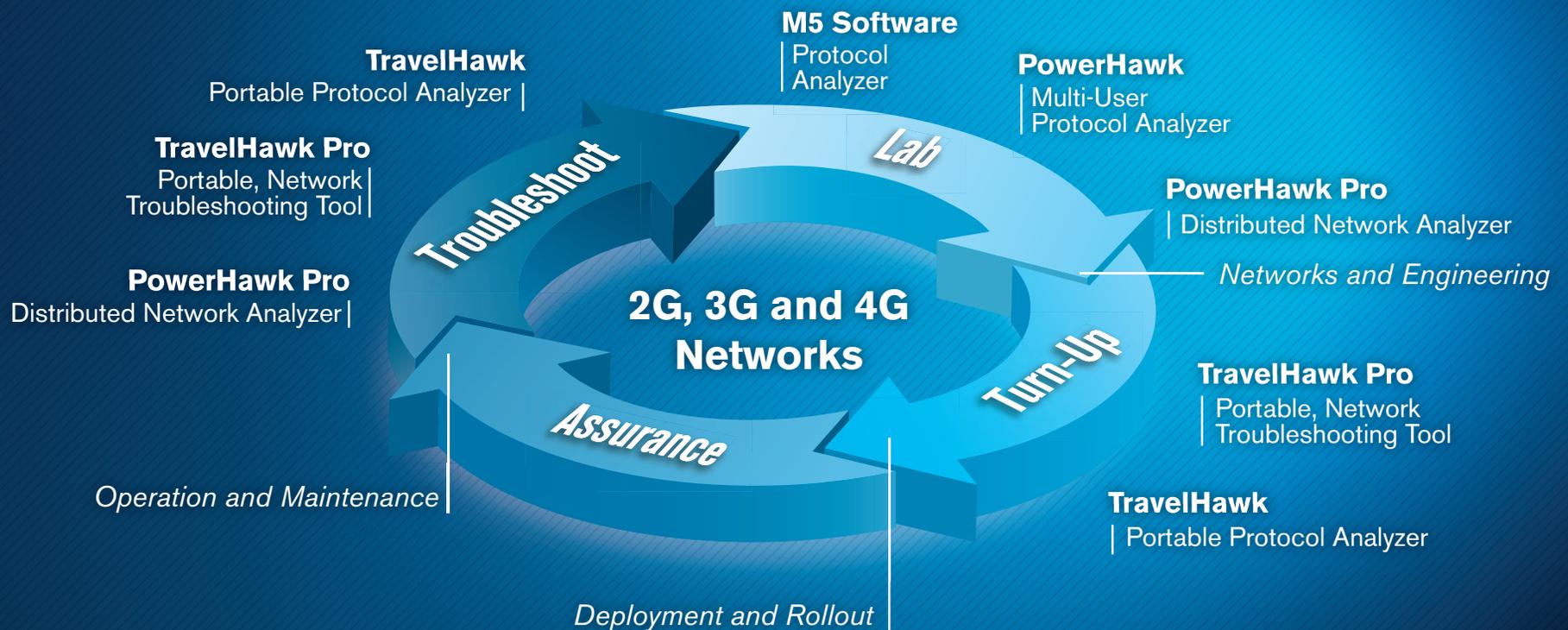
Protocol Analyzer



- › Easily install M5 Analyzer software on any Windows PC
- › Troubleshooting and functional testing of Ethernet-based interfaces

...and every phase of the network lifecycle.

Each analyzer is designed to address specific testing needs in the lab and field. Plus, their scalable, modular architecture allows them to be upgraded as requirements change, from one phase of the network lifecycle to the next. Investing in this flexible analyzer family is a clear way to slash CAPEX.





**TRAVELHAWK PRO GAINS ACTIONABLE
DATA IN MINUTES FROM ANYWHERE**

TravelHawk Pro

Portable, Network Troubleshooting Tool

LIVE LTE NETWORK CAPTURE AND ANALYSIS



The TravelHawk Pro is designed for three main troubleshooting operations: LTE end-to-end network analysis, IP application data analysis and data capturing. The capacity to support all three operations is what makes this tool so powerful. The TravelHawk Pro also dramatically improves network quality and reduces the average mean time to repair (MTTR) from days to hours.

- › A unique, portable, live LTE network troubleshooting tool for simultaneous 1G/10G Ethernet
- › Comprehensive end-to-end support of live network performance



ALL THE KEY PERFORMANCE INDICATORS ARE HERE,
POWERHAWK PRO HELPS YOU FIND THEM

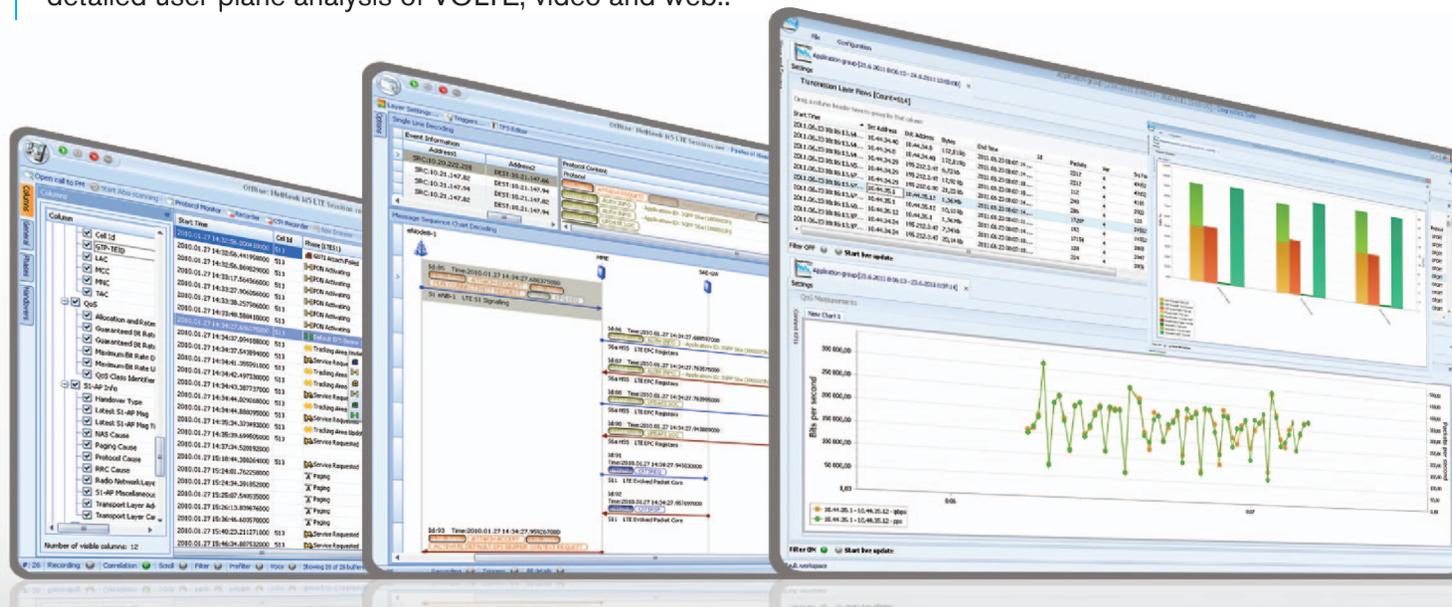
PowerHawk Pro

Multi-User, Live Network Analyzer

FASTER, MORE EFFICIENT LIVE NETWORK TROUBLESHOOTING AND SERVICE OPTIMIZATION

As mobile networks move to an all-IP model to meet increasing bandwidth requirements and subscriber growth, it is more essential than ever to gain real-time, end-to-end insight into the performance of the network. In addition to ensuring functionality and interoperability, quality of experience (QoE) is becoming even more critical as subscribers' expectations grow. The PowerHawk Pro delivers fast, efficient live troubleshooting and service optimization, providing real-time KPIs and detailed user-plane analysis of VOLTE, video and web..

- › Immediate, real-time results for faster resolution of network errors
- › IP application analysis
- › Correlated high-performance control and user-plane analysis for unprecedented visibility of end-user QoE



A blurred photograph of a person in a blue shirt and dark pants walking on an escalator. The person is in motion, creating a sense of speed. The background is a modern, brightly lit transit station with a white, ribbed ceiling and large glass panels. The overall color palette is dominated by blues and whites.

TRAVELHAWK TAKES COMPREHENSIVE
TROUBLESHOOTING ANYWHERE

TravelHawk

Portable Analyzer

THE ONLY PORTABLE, ALL-IN-ONE MULTITECHNOLOGY
PROTOCOL ANALYZER



Troubleshooting a mobile network sometimes means leaving the comfort of the office and going on-site to investigate the problem. This requires an analyzer to be portable, without sacrificing functionality. The TravelHawk can be easily carried and stowed in the overhead compartment of an airplane. By avoiding the logistical problems of carrying cumbersome equipment to a site, test engineers can get to the field quickly to fix the problem.

- › Only portable analyzer on the market to support 2G, 3G and 4G/LTE in one box
- › Only portable analyzer on the market to support E1, STM-1, 1G/10G in one box
- › Ideal for on-site troubleshooting as well as lab testing



- › Efficient network management
- › Verification, troubleshooting as well as QoS testing
- › One tool to test 2G, 3G and 4G
- › Scalable: portable unit or rack-mounted

ONE CENTRALIZED POWERHAWK SOLUTION, MULTIPLE USERS



PowerHawk

Multi-User Analyzer

REAL-TIME, MULTITECHNOLOGY ANALYSIS
WITH LOCATION-INDEPENDENT ACCESS



Interoperability testing and system verification require analyzing a huge amount of data and running multiple tests. In such a context, the customer-support team may be interested in troubleshooting, while the service team may want to check the performance of a recently launched service. This calls for a very powerful analyzer capable of performing a wide range of tests, handling a high volume of data and supporting multiple users. The server-based PowerHawk delivers real-time results and enables up to 10 users to simultaneously perform independent tests.

- › Remote access enabling 24/7 testing across global teams
- › Centralized hardware minimizing maintenance and costs
- › Can be upgraded to PowerHawk Pro simply by adding the probe

IN-DEPTH, ROOT-CAUSE ANALYSIS YOU CAN SEE



X MEDIA

WORLD
- EUROPE
- AMERICA
- ASIA
- AFRICA

INTERNET
- LIVE CHAT
- MEDIA
- PHOTOS
- VIDEOS
- MUSIC

WORLD
- EUROPE
- AMERICA
- ASIA
- AFRICA
- SCIENCE

LOADING 100%

WORK SEARCH



WORLD

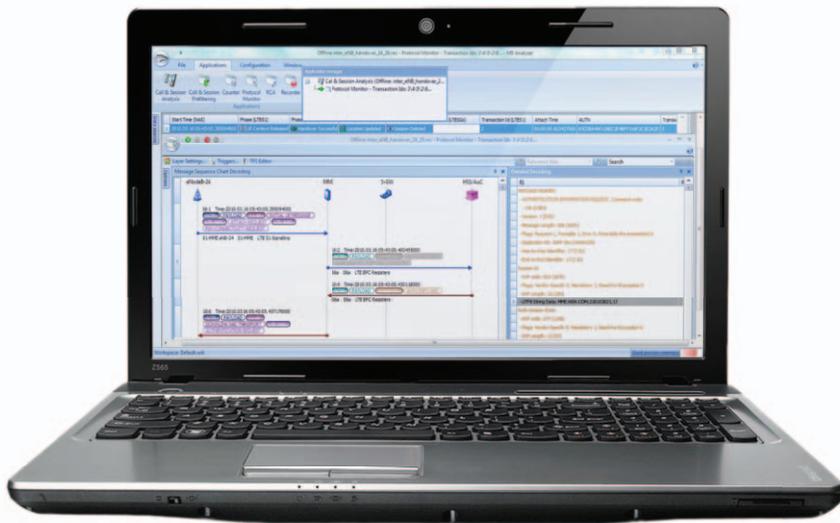
NETWORK SEARCH
- PEOPLE
- FORUMS
- MAIL
- SHOP
- BUY
- SALE

WORLD
- INVESTMENT
- INCOME
- MONEY

M5

Protocol Analyzer Software

FAST WIRELESS AND IP ANALYSIS ON ANY WINDOWS PC



Combining simplicity and speed, M5 software turns any windows PC into a protocol analyzer—just download, install and start troubleshooting. Ideal for functional testing, this solution tests all standard wireless technologies with Ethernet interfaces.

- › Real-time analysis without any probes, just NICs
- › Can be upgraded to PowerHawk Pro simply by adding the probe

Discover EXFO's network
analysis product family at
EXFO.com/Hawk

